Application No.: 10/670,670 Docket No.: PE0673 US CIP

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Listing of Claims

- 1. (Canceled)
- 2. (Previously Presented) A composition comprising an aqueous dispersion of an electrically conductive organic polymer and a plurality of nanoparticles wherein said electrically conductive organic polymer is selected from polyaniline with poly(2-acrylamido-2-methyl-1-propanesulfonic acid) as the counterion (Pani/PAAMPSA), polythiophene and poly(ethylenedioxythiophene) with poly(styrenesulfonic acid) as the counterion (PEDT/PSS) and wherein nanoparticles are selected from the group consisting of inorganic nanoparticles, organic nanoparticles, and mixtures thereof.
 - 3. (Canceled)
- 4. (Previously Presented) A composition according to claim 2, wherein said inorganic nanoparticles are selected from silica, alumina, electrically conductive metal oxides, and mixtures thereof.
- 5. (Previously Presented) A composition according to claim 2, wherein said organic nanoparticles are selected from polyacrylates, carbon nanotubes, perfluoroethylene sulfonates, and mixtures thereof.
- 6. (Previously Presented) A composition according to claim 2, wherein said nanoparticles have a particle size less than about 500 nm.
- 7. (Previously Presented) A composition according to claim 2, wherein said nanoparticles have a particle size less than about 250 nm.
- 8. (Previously Presented) A composition according to claim 2, wherein said nanoparticles have a particle size less than about 50 nm.
- 9. (Original) A composition according to claim 4, wherein the weight ratio of silica:electrically conductive polymer is about 4:1.
- 10. (Original) A composition according to claim 4, wherein the weight ratio of electrically condutive oxides: electrically conductive polymer is about 1.5:1.
- 11. (Previously Presented) A high resistance buffer layer comprising an electrically conductive polymer and a plurality of nanoparticles dispersed therein, wherein the nanoparticles are selected from the group consisting of inorganic nanoparticles, organic nanoparticles, and mixtures thereof.
- 12. (Original) A high resistance buffer layer according to claim 11, wherein said electrically conductive polymer is selected from Pani/PAAMPSA and PEDT/PSS.
 - 13. (Canceled).

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- 14. (Previously Presented) A high resistance buffer layer according to claim 11, wherein said inorganic nanoparticles are selected from silica, alumina, electrically conductive metal oxides, and mixtures thereof.
- 15. (Previously Presented) A high resistance buffer layer according to claim 11, wherein said organic nanoparticles are selected from polyacrylates, carbon nanotubes, perfluoroethylene sulfonates, and mixtures thereof.
- 16. (Original) A high resistance buffer layer according to claim 11, wherein said layer has a conductivity of less than about 1×10^{-3} S/cm.
- 17. (Original) A high resistance buffer layer according to claim 11, wherein said layer has a conductivity of less than about 1×10^{-5} S/cm.
 - 18. (Canceled)
 - 19. (Canceled)
- 20. (Previously Presented) An organic device comprising a high resistance buffer layer comprising an electrically conductive polymer and a plurality of nanoparticles dispersed therein, wherein said nanoparticles comprise nanoparticles selected from inorganic nanoparticles, organic nanoparticles, and mixtures thereof.
- 21. (Previously Presented) A device according to claim 20, wherein said inorganic nanoparticles are selected from silica, alumina, electrically conductive metal oxides, and mixtures thereof.
- 22. (Previously Presented) A device according to claim 20, wherein said organic nanoparticles are selected from polyacrylates, carbon nanotubes, perfluoroethylene sulfonates, and mixtures thereof.
- 23. (New) A device according to claim 20, wherein said electrically conductive polymer is selected from PAni/PAAMPSA and PEDT/PSS.